GENERAL TECHNICAL DATA

	RCW 50 EG	RCW 50 EK
External dimensions h x w x l	830 x 720 x 975	830 x 720 x 975
Shipping dimensions h x w x l	950 x 755 x 1015	950 x 755 x 1015
Shipping weight : kg	70	76
Vaccine storage capacity : Litres	2 x 12 = 24	2 x 12 = 24
Frozen Ice pack storage capacity	4 x 0,6 = 2,4	4 x 0,6 = 2,4
Absorption compartment	Cooling unit with flue baffle Heating element Burner Spark plug For Propane gas 30mbar	Cooling unit Heating element Aladin 32 Burner Kerosene tank
Control panel	Situated at the top of the unit; 1 gas thermostat 1 Piezo igniter 1 Flame failure safety device 1 electro thermostat	Situated at the top of the unit; 1 electo thermostat
Cooling system	Absorption cooling unit filled with NH3 for 120W	Absorption cooling unit filled with NH3 for 120W
Energy consumption Gas consumption Kerosene consumption	2,46KWh/24h at 32°C amb. temp. 0,43Kg/24h at 32°C amb. temp.	2,46KWh/24h at 32°C amb. temp. 0,76lts/24h at 32°C amb. temp.
Insulation	100mm Polyurethane foam Foaming agent : Cyclopentane	100mm Polyurethane foam Foaming agent : Cyclopentane
Ice pack freezing	Ice pack freezing with vaccine; 2,4Kg/26,5h at 32°C amb. temp.	Ice pack freezing with vaccine; 2,4Kg/24h at 32°C amb. temp.
Outer body	Rotomoulded with Polyethylene Lockable lid with 2 catches Silicon Gasket ensures tight sealing 1 dial thermometer to control the temperature Safety distance spacer bar	Rotomoulded with Polyethylene Lockable lid with 2 catches Silicon Gasket ensures tight sealing 1 dial thermometer to control the temperature Burner lighting instruction on the lid Safety distance spacer bar
Accessories	1 Spirit level 1 Gas hose with 2 clips 2 water separation walls 2 Aluminium separation walls 1 user manual	1 Spirit level 2 water separation walls 2 Aluminium separation walls 1 Aladin 32 burner with glas 1 filling funnel and brush 1 user manual
Hold over during power cut	6,5 hrs. at 32°C amb. temp.	6,5 hrs. at 32°C amb. temp.
WHO test procedure	E3 / PROC / 5 and E3 / PROC / 8	E3 / PROC / 5 and E3 / PROC / 8
WHO specifications	E3 / RF 2 and E3 / RF 6	E3 / RF 2 and E3 / RF 6
Voltage	230V 50/60Hz	230V 50/60Hz

Packed with safety features : outside reading of inside temperature, distance rail for correct packing, flame failure device and thermostat for gas – including piezo-ignition – electro thermostat.

The EG version can run on liquid gas or electricity.

The EK version can run on kerosene or electricity. The transparent kerosene tank allows you to check the level of fuel.

GENERAL TECHNICAL DATA

	FCW 20 EG	FCW 20 EK	RCW 42 EG	RCW 42 EK
External dimensions (h x w x l) mm	720 x 630 x 680	720 x 630 x 680	500 x 540 x 820	720 x 540 x 820
Shipping dimensions (h x w x l) mm	755 x 687 x 687	755 x 687 x 687	670 x 580 x 860	670 x 580 x 920
Shipping weight : kg	/	/	47	53,5
Vaccine storage capacity : Litres	/	/	10,5	18,2
Frozen icepack storage capacity	14 x 0,6 litres	14 x 0,6 litres	Cooling unit with flue baffle	Cooling unit
Absorption compartment		Cooling unit Heating element Aladin 32 Burner Kerosene tank	Heating element Burner Spark plug For Propane gas 30 mbar Situated at the right top side of the unit;	Heating element Cosmos 8'' Burner Kerosene tank Situated at the right top side of the unit;
Control panel	Situated at the left side on top of the unit; 1 selector switch for AC or DC function	Situated at the left side on top of the unit;1 selector switch for AC or DC function	1 gas / electro thermostat 1 Piezo igniter 1 Flame failure safety device Absorption cooling unit	1 electro thermostat Absorption cooling unit
Cooling system	Absorption cooling unit filled with NH3 for 120W	Absorption cooling unit filled with NH3 for 120W	filled with NH3 for 85W 1,9KWh/24hrs. at 32°C amb. temp	filled with NH3 for 85W 1,6KWh/24hrs. at 32°C amb. temp
Energy consumption Gas consumption Kerosene consumption	2,7KWh/24hrs. at 32°C amb. temp 0,6Kg/24hrs. at 32°C amb. temp	2,7KWh/24hrs. at 32°C amb. temp 0,65lts./24hrs. at 32°C amb. temp	0,38Kg/24hrs. at 32°C amb. temp 100mm Polyurethane foam	0,7lts/24hrs. at 32°C amb. temp 100mm Polyurethane foam
Insulation	100mm Polyurethane foam Foaming agent : Cyclopentane	100mm Polyurethane foam Foaming agent : Cyclopentane	Foaming agent : Cyclopentane Ice pack freezing with vaccine;	Foaming agent : Cyclopentane Ice pack freezing with vaccine;
Ice pack freezing	Ice pack freezing without vaccine; 2,4Kg/24h at 32°C amb. temp.	Ice pack freezing without vaccine; 2,4Kg/24h at 32°C amb. temp.	0,4Kg/8,5h at 32°C amb. temp. Rotomoulded with Polyethylene	0,37Kg/9h at 32°C amb. temp. Rotomoulded with Polyethylene
Outer body	Rotomoulded with Polyethylene Lockable lid with 2 catches Silicon Gasket ensures tight sealing Safety distance spacer bar	Rotomoulded with Polyethylene Lockable lid with 2 catches Silicon Gasket ensures tight sealing Burner lighting instruction on the lid Safety distance spacer bar	Lockable lid with 2 catches Silicon Gasket ensures tight sealing 1 dial thermometer to control the temp. 2 handles 1 Spirit level	Lockable lid with 2 catches Silicon Gasket ensures tight sealing 1 dial thermometer to control the temp. 2 handles Burner lighting instruction on the lid 1 Spirit level
Accessories	1 Spirit level 1 Gas hose with 2 clips 1 user manual	1 Spirit level 1 Aladin 32 burner with glas 1 filling funnel and brush 1 user manual	1 Gas hose with 2 clips 1 aluminium separation wall 1 user manual 4 Ice packs 0,3 litres 6hrs. at 32°C ambiant temp.	1 plastic & aluminium separat. wall 1 tank support with kerosene tank 1 filling funnel and brush 1 cosmos 8''' burner with 2 wicks 1 user manual & 1 mesh ring kit 4 Ice packs 0,3 litres. 6hrs. at 32°C ambiant temp.
Hold over during power cut	11hrs. at 32°C ambiant temp.	11hrs. at 32°C ambiant temp.	E3 / PROC / 6	E3 / PROC / 6
WHO test procedure	E3 / PROC / 6	E3 / PROC / 6	E3 / RF.6	E3 / RF.6
WHO specifications	E3 / FR.4	E3 / FR.3	230V 50/60Hz / 12VDC	230V 50/60Hz / 12VDC
Voltage	230V 50/60Hz / 12VDC	230V 50/60Hz / 12VDC		

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Dometic MEDICAL SYSTEMS

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ABSORPTION REFRIGERATORS AND FREEZERS

FCW 20 EG
FCW 20 EK
RCW 42 EG
RCW 42 EK
RCW 42 EKG
RCW 50 EG
RCW 50 EK

Absorption refrigerators and freezers for health centres

The absorption equipment from the Cold Chain range of products comprising 4 refrigerators for storing vaccines and 2 ice-pack freezers is adapted to the different constraints at health centres.

Dometic MEDICAL SYSTEMS

The absorption refrigerators and freezers for health centres can operate from a variety of energy sources with complete reliability, and require little maintenance. Made of roto-moulded polyethylene, they offer the durability and robustness required for intensive use, as well as heavy-duty insulation and physical resilience.

Fitted with handles and recessed catches, the RCW 42 models can be easily moved and transported.

Capable of operating on gas, the RCW 42 EG is also fitted with a piezo igniter and an integrated safety mechanism that automatically cuts off the gas supply once the flame is extinguished. In this case, the thermostat control uses the pilot light (by-pass) for the gas output.

FCW 20 EG

The FCW 20 EG (electricity - LPgas) and the FCW 20 EK (electricity - kerosene) are designed exclusively for freezing large quantities of ice packs. The freezing capacity of these 2 types of equipment can freeze up to 4 ice packs of 600 ml each within 24 hours, while simultaneously storing 10 others, even at an ambient temperature of +32 °C.

COLD CHAIN

FCW 20 EK

The FCW 20 EK is equipped with a kerosene burner, the “Alladin 32”, ensuring a constant flame and practically obviating the need for any control. The mere press of a button switches to freezing in the electric mode.

RCW 42 EG

The RCW 42s perform a dual function: vaccine storage at the appropriate temperature on the one hand, and freezing of ice packs on the other. The equipment is designed for operation either by electricity, gas or by kerosene, depending on local availability. In this way, the units ensure that the Cold Chain will be maintained for vaccines even at remote vaccination centres. The RCW 42 EG (electricity - gas), the RCW 42 EK (electricity - kerosene) and the RCW 42 EKG (electricity - gas - kerosene) units are all fitted with thermostats. When the equipment operates on electricity, the thermostat control functions as a switch that either starts or cuts off the heating resistance of the refrigeration system. The evaporator plates positioned on the inside walls allow the preparation of ice cubes or freezing of ice packs.

RCW 42 EK

COLD CHAIN

The safe use of vaccination to prevent disease requires that the vaccines are stored and distributed in temperature controlled conditions. As a result of major research international health organizations became customers of Dometic, the largest manufacturer of cooling appliances in the world. That was 15 years ago – and the model **RCW 50** is packed with all the experience Dometic has gathered in this special field of cold chain. This refrigeration equipment can work with electricity, liquid gas, or kerosene.

RCW 50 EG

RCW 50 EK

Dometic experts in medical systems have introduced a new product, designed specifically for tropical conditions. The absorption refrigeration process, which is both silent and vibration free, works well not only with electricity, but also with liquid gas (model EG) and kerosene (EK). Internal capacity is 70 litres gross, allowing for the storage of up to 24 litres of vaccines.
It operates in the temperature range O°C to 8°C.
The cooling compartment is made from Polyethylene manufactured by a rotation moulding process, which means that it is one seamless piece that is practically indestructible. The insulation is composed of 100 mm thick Polyurethane foam (CFC-free) which enables the RCW 50 to run efficiently with low energy consumption, and easily exceeds the hold over time required by international health organizations which means that in an ambient temperature of 32°C the internal temperature will not rise above 10°C within 6,5 hours.